

PHASE DIGITIZER FOR SIGNALS IN IMPERFECT QUADRATURE

Abstract

5 A method of digitizing first and second signals in imperfect quadrature
for obtaining characteristic parameters of the first signal comprises providing a
first signal, the first signal comprising an inphase quasi-sinusoidal analog signal.
The method comprises providing a second signal, the second signal comprising a
quadrature signal. The method comprises digitizing the first signal at a sampling
10 rate, thereby generating a first plurality of sets of digital signal waveform
samples and digitizing the second signal at the sampling rate, thereby generating
a second plurality of sets of digital signal waveform samples. The method
comprises digitally processing successive first and second sets of digital signal
waveform samples to generate continually updated digital characteristic
15 parameters representing a characteristic behavior of the first signal.